

AMENDMENT UNDER C.F.R. § 1.114(c)
Appln. No. 02/606,179

Atty. Docket No. Q78106

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A recording material comprising: on a support, a recording layer including a diazo compound, a coupler compound that can react with the diazo compound to form a color, and a metal salt, wherein

the coupler compound is represented by the general formula (1):

General formula (1)



wherein R^1 , R^2 , R^3 , and R^4 each independently represent a hydrogen atom, an alkyl group, an aryl group, an alkoxy group, or an amino group; R^5 , R^6 , R^7 , R^8 , and R^9 each independently represent one selected from the group consisting of a hydrogen atom, a halogen atom, an alkyl group, an aryl group, an alkoxy group, an alkoxycarbonyl group, and an acyl group ~~a hydrogen atom, a halogen atom, an alkyl group, an aryl group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an alkylsulfonyl group, an arylsulfonyl group, an alkoxycarbonyl group, an aryloxy carbonyl group, an acyloxy group, an acyl group, a carbamoyl group, an acylamino group, a sulfamoyl group, a sulfonamide group, a cyano group,~~

~~or a nitro group~~; any of R¹ to R⁹ may have a substituent; and X represents an oxygen atom or a sulfur atom.

2. (original): The recording material according to claim 1, wherein at least one of R¹, R², R³, and R⁴ in the general formula (1) is a hydrogen atom, an alkyl group or an alkoxy group.

3. (original): The recording material according to claim 1, wherein at least one of R¹, R², R³, and R⁴ in the general formula (1) is a hydrogen atom or an alkoxy group.

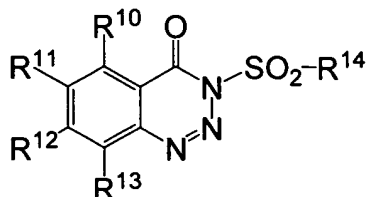
4. (canceled).

5. (original): The recording material according to claim 1, wherein at least one of R⁵, R⁶, R⁷, R⁸, and R⁹ in the general formula (1) is a hydrogen atom, a halogen atom, an alkyl group, an aryl group, or an alkoxy group.

6. (original): The recording material according to claim 1, wherein the coupler compound has a solid content of 0.02 g/m² to 5 g/m².

7. (original): The recording material according to claim 1, wherein the diazo compound is a compound represented by the following the general formula (2):

General formula (2)



wherein R¹⁰, R¹¹, R¹², and R¹³ each independently represent a hydrogen atom, a halogen atom, an alkyl group, an aryl group, an alkoxy group, an aryloxy group, an alkylthio group, an arylthio group, an alkylsulfonyl group, an arylsulfonyl group, an alkoxycarbonyl group, an aryloxycarbonyl group, an acyloxy group, an acyl group, a carbamoyl group, an acylamino group, a sulfamoyl group, a sulfonamide group, a cyano group, or a nitro group; and R¹⁴ represents an alkyl group or an aryl group.

8. (original): The recording material according to claim 7, wherein at least one of R¹⁰, R¹¹, R¹², and R¹³ in the general formula (2) is a hydrogen atom, a halogen atom, an alkylsulfonyl group, an arylsulfonyl group, an acyl group, a cyano group, or a nitro group.

9. (original): The recording material according to claim 1, wherein the diazo compound has a solid content of 0.02 g/m² to 5 g/m².

10. (original): The recording material according to claim 1, wherein the metal salt is a divalent metal salt.

11. (original): The recording material according to claim 1, wherein the metal salt is at least one selected from the group consisting of zinc sulfate, zinc chloride, zinc 2-ethylhexanoate, copper sulfate, manganese chloride, aluminum sulfate, nickel chloride, cobalt chloride, and iron nitrate.

12. (original): The recording material according to claim 1, wherein the metal salt is at least one selected from the group consisting of zinc 2-ethylhexanoate, zinc sulfate and zinc chloride.

13. (original): The recording material according to claim 1, wherein the metal salt has a solid content of 0.002 g/m² to 5 g/m².

14. (original): The recording material according to claim 1, wherein the recording layer is a thermal recording layer in which a color is formed by the application of heat.

15. (original): The recording material according to claim 1, wherein the diazo compound is encapsulated in microcapsules.

16. (original): The recording material according to claim 1, wherein both the diazo compound and the metal salt are encapsulated in microcapsules.

17. (original): The recording material according to claim 16, wherein the microcapsules have a capsule wall comprising at least one of polyurethane and polyurea.

18. (original): The recording material according to claim 1, wherein the recording layer includes an organic base.

19. (original): The recording material according to claim 1, wherein the recording layer includes a coloring aid.

20. (original): The recording material according to claim 1, wherein a protective layer is disposed on the recording layer.